

## ABSTRACT

5           The present invention relates to recombinant bovine parainfluenza virus  
(bPIV) cDNA or RNA which may be used to express heterologous gene products in  
appropriate host cell systems and/or to rescue negative strand RNA recombinant viruses that  
express, package, and/or present the heterologous gene product. The chimeric viruses and  
expression products may advantageously be used in vaccine formulations including vaccines  
10 against a broad range of pathogens and antigens.

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